BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :- Estimate for the work of Remodeling of SWD and its allied works in Critical Low Lying Area (Flood Prone Area) at Bhadrappa Layout, Nagashettihalli, Sanjaya Nagara in Yelahanka Zone. (ECV Rs 156.57 Lakhs)

BBMP/2012-13/OW/WORK INDENT3648

Comparative Statement

of Contractor:Sri. KONDULU SUBRAMANYA RAJU M/s.Deccan Engineers and Constructions

Item Name	Item Code	Unit	As per Sanctioned Estimate			As per Agreement		Qty. Upto 125%			Qty. Beyond 125%			Total		Excess	Savings	Remarks
			Estimate Quantity	Estimate Rate (in Rs.)	Estimate Amount (in Rs.)	Quoted Item Value (in Rs.)	Quoted Amount (in Rs.)	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount			
Clearing and gurbbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light single, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials from road boundary, labour charges complete as per specifications	1	sqm	2400.00	4.86	11,664.00	5.4	12,960.00										12,960.00	
Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. "V. Marshy soil - A.Manual cleans upto 3 m depth . MORTH Specification	2	cum	1200.00	304.56	365,472.00	341.0	409,200.00	421.77	341.0	143823.57				421.77	143823.57		265,376.43	
Sinking 100mm dia Bore holes in soils by manual auguring conducting standard penetration test at relevant death collecting disturbed and undisturbed soil samples where ever required for conducting necessary laboratory tests and sub mission of report including recommending suitable type of foundation sinking upto 6 mts or Refusal (N>50) whichever is earlier	3	No.	1.00	4806.00	4,806.00	5382.0	5,382.00										5,382.00	
Diversion of water course by providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc., complte. 1.50 mtrs depth below LWL	4	cum	175.00	235.44	41,202.00	263.5	46,112.50	218.75	263.5	57640.63	320.43	302.44	96910.85	539.18	154551.47	108,438.97		
Dismantling of existing structures like culverts, bridges retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work including T & P and scaffolding wherever necessary sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres complete as per specification.iii) Dismantling Stone Masonry. B.Rubble Stone masonry in cement mortar	5	cum	180.00	194.40	34,992.00	218.0	39,240.00	181.02	218.0	39462.36				181.02	39462.36	222.36		

k in excavation for foundation of s as per drawing and technical ation of shoring and bracing, removal ge and other deleterious matter, of sides and bottom and backfilling oved material complete as per ations. B. Mechanical Means (i) Depth m. MORTH Specification No.Section ary soil	6a	cum	1560.45	40.99	63,962.85	46.0	71,760.70	1050.56	46.0	89725.66	982.89	44.47	69128.82	2311.25	1068854.70	34,074.03		
k in excavation for foundation of es as per drawing and technical ations, including setting out ction of shoring and bracing, removal ge and other deleterious matter, g of sides and bottom and backfilling oved material complete as per ations. B. Mechanical Means (i) Depth m. MORTH Specification No Section ft rock	6b	cum	1318.20	47.70	62,869.15	49.0	61,189.64										61,189.64	
k in excavation for foundation of es as per drawing and technical ations, including setting out, ction of shoring and bracing, removal ge and other deleterious matter, g of sides and bottom and backfilling oved material complete as per ations. B. Mechanical Means (i) Depth m. MORTH Specification No Section ft rock	6c	cum	317.00	486.84	142,575.70	612.0	159,790.08										159,790.08	
ng, conveying, placing and filling (selected) gsb (passing 0.3 mm size sieve ed on 4.36mm) including watering mpacting in layers of 15 cms thick with and III and as directed by the er incharge	7	cum	5.68	1208.02	6,859.54	1264.0	7,623.02										7,623.02	
ng and Filling in foundation with ing type broken metal 100mm and down ed approved size including all ge, ramming, watering, including cost of ials and labour with lead upto 1 m of 1.5m complete as per specifications	8	cum	426.15	1143.72	487,399.28	1281.0	545,885.15	260.78	1281.0	334059.16			780.72	334059.16			211,825.97	
ural concrete M 10 with OPC cement 0 kgs with crushed 40m and down size d granite metal coarse aggregates @ um and fine aggregates @ 0.6 cum per ation mechanically mixed, placed in ation and compacted by vibration g curing, for 14 days complete as per ations	9	cum	123.75	4130.40	511,062.00	4693.0	580,758.70	130.37	4693.0	611828.41			130.37	611828.41	31,047.66			
Reinforced Cement concrete design 25 with OPC cement @ 340 kgs with and down size granite metal e aggregates @ 0.72 cum and fine ates @ 0.47 cum with superplasticizer s conforming to IS 9103-1999 Reinforce- in open foundation complete as per g and technical specification. Close-I Batching Plant, Transit Mixer and ete Pump	10	cum	104.75	4603.64	482,230.72	5102.0	1,000,404.36										1,000,404.36	

ign mix M 25 with OPC cement @ kgs with 20mm and down size graded ral metal course aggregates @ 0.7Cum fine aggregates @ 0.47 cum, with ncrete sor @ 3lts confirming to IS9103- 9 Reaffirmed-2008 @ upto 5m height.	11	cum	128.60	5134.33	659,427.50	5750.0	739,677.50									738,623.50	
n (Reinforced Cement concrete in open dation with OPC cement, design mix M25 /m3 cps, with 20mm and down size graded e metal course aggregates @ 0.66 cum d fine aggregates @ 0.45 cum, with ncrete plasticizer @ 3lts confirming to IS 9103- 9 Reaffirmed-2018complete as per wing and authorized specification. Class-II, h Batching Plant, Transit Mixer and ncrete Pump	12	cum	185.00	4018.33	914,894.52	5508.0	1,024,488.00	252.53	7008.0	12808.10.00	214.70	5762.00	123713.85	44720	2617521.85	1,403,495.85	
ign mix M 25 with OPC cement @ kgs, with 20mm and down size graded e metal coarse aggregates @ 0.66cum d fine aggregates @ 0.45 cum, with ncrete plasticizer @ 3lts confirming to IS9103- 99 Reaffirmed-2005 @ upto 5m height	12	cum	190.00	5468.64	878,342.40	6150.0	984,000.00	200.00	6150.0	1230000.00	33.42	6389.30	213330.41	233.42	1443330.41	459,330.41	
nishing and Placing Reinforced / restressed cement concrete in super- ucture as per drawing and Technical ecification complete as per Specification of RDO/PEC with OPC cement design mix ade @ 300kgs, with 20mm and down size ded granite metal coarse aggregates @ 0.8cum and fine aggregates @ 0.45cum, th concrete admixture @ 3lts confirming to S9103-1999 Reaffirmed-2008. Class-II ching, Batching plant, Transit mixer & ncrete pump. Height upto 5m	14	cum	198.00	5508.72	884,592.76	6270.0	990,990.00	197.00	6270.0	1238325.00	174.38	6581.95	4144338.40	371.38	2382963.40	1,392,007.40	
upplying, filling and placing TMT bar reinforcement in sub-structure complete as d Technical Specifications complete as per cifications.	65	MT	70.45	58935.84	4,168,977.00	78420.0	5,410,252.50	72.23	78420.0	5524957.50				72.23	5524957.50	114,705.00	
upplying, filling and placing TMT bar reinforcement in super-structure complete as d drawing and technical specifications ving etc as per specifications.	16	MT	77.50	59078.64	1,007,214.75	77300.0	1,349,474.00	21.50	77300.0	1679342.50	13.24	75052.37	1005609.78	34.97	2684951.68	1,341,477.68	
ovi ding 110mm dia PVC pipe B KSC) with ocess pip in 1:4 with aggregate of size 0mm. 3mm including geotextile fabric cover pipe, concrete / reinforced concrete luding cost and conveyance of all terials, labour, lead and lift etc., complete and as directed by the Engineer in charge er box drain with PVC pipe 0.75 mtr	17x	Nos	10.00	726.00	2,350.00	264.0	2,640.00									2,640.00	
ovi ding 110mm dia PVC pipe B KSC) with ocess pip in 1:4 with aggregate of size um 3mm including geotextile fabric cover pipe, concrete / reinforced concrete luding cost and conveyance of all terials, labour, lead and lift etc., complete ne as directed by the Engineer in charge to vide PVC pipe 0.6 mtr	17x	Nos	580.00	103.25	91,025.00	285.0	102,500.80	348.00	285.0	71340.00				348.00	71340.00	21,160.00	

...ing and laying in position 25mm thick ...ded joint filler in expansion joint for ...ade of simply supported spans not ...ding 10m to cater for a horizontal ...ment upto 20mm covered with sealant ...ete as per drawing & Technical ...fication complete as per specifications	18	Rft	60.00	171.72	10,303.20	192.0	11,520.00											11,520.00
...ing and laying of Filter media with ...ular materials/stone crushed aggregates ...ying the requirements laid down in ...use 2500.4.2.2 of MORTH specifications ...hickness of not less than 600 mm with ...ler size towards the soil and bigger size ...ards the wall and provided over the entire ...ase behind abutment, wing wall and ...m wall to the full height compacted to a ...condition complete as per drawing and ...ar specification complete as per ...fications.	19	cum	504.00	695.28	350,381.12	745.0	375,480.00											375,480.00
...ding, conveying and disposal of surplus ...avated earth to designated dumping ...(upto 10.00 kms) as directed by the Engineer ...harge.	20	cum	650.00	106.60	104,364.00	121.5	116,040.00	1300.00	171.5	145600.00	483.47	119.77	57906.2019	1583.47	203705.20	87,059.20		
...Provision* ...h work in excavation for foundation of ...ctures as per drawing and technical ...fications, including sealing out, ...struction of shoring and bracing, removal ...mbers and other deleterious matter, ...ing of sides and bottom and backfilling ...approved material complete as per ...fications. B. Mechanical Means (i) Depth ...2 m	21	cum	403.75	40.39	16,648.71	41.0	16,872.50											16,872.50
...ding and Filling in foundation with ...ken/chip broken metal 100mm and down ...with approved sand including hand ...ing, ramming, watering, including cost of ...materials and labour with lead upto 50m ...lift of 1.5m complete as per specifications	22	cum	223.00	1143.77	255,049.55	1281.0	285,663.00											285,663.00
...plying and placing in position as per ...wing Precast RCC Ring-1200 mm dia ...0mm depth and 75mm thick of M20 grade ...ding cost of all materials and labour ...xpenditure etc., complete and as directed ...the Engineer in charge.	23	No.	50.00	2047.08	102,354.00	2291.0	114,709.60											114,709.60
...ding and laying of Filter media with ...ular materials/stone crushed aggregates ...ying the requirements laid down in ...use 2500.4.2.2 of MORTH specifications ...hickness of not less than 300 mm with ...ler size towards the soil and bigger size ...ards the wall and provided over the entire ...ase behind abutment, wing wall and ...m wall to the full height compacted to a ...condition complete as per drawing and ...ar specification complete as per ...fications.	24	cum	113.00	665.28	75,176.64	745.0	84,185.00											84,185.00
...Reinforced Cement concrete M 20 with ...PC cement @ 320 kg/c, with 20mm and ...wn size graded granite metal coarse ...gregates @ 0.69 cum and fine aggregates ...0.40 cum with superplasticizer @ 3lit ...delivering to IS 9103-1999 Reaffirmed-2008 ...open foundation complete as per drawing ...d technical specifications. C. RCC Grade M-...Class-I Using Concrete Mixer	25	cum	154.50	4707.72	727,342.74	5273.0	814,678.50											814,678.50

cking, lifting and placing TMT bar forcement in sub-str, cture as per drawing Technical Specifications complete as per tructions	26	MT	0.87	56838.84	494,009.69	7647.00	920,346.80										920,346.80
viding fixing of steel gratings (750 x 750 uding cost of all materials and labour with ead and lift as per drawing and technical ecification or as directed by the Engineer harge	27	No	2.00	11020.00	22,000.00	12320.0	24,640.00										24,640.00
Cost of Construction RCC Box Culvert, CT ross BR/26 (DY/03) Cle aring and quarrying road lane including cutting roots vegetation, grass, bushes, stumps and trees of girth upto 30cm by manual means, lo ading of light ngle removal of stumps, disposal of ser viceable materials stacking of erviceable materials from road boundary, our charges complete as per specifications	28	sqm	59.80	4.98	297.80	5.5	297.00										297.00
lding / Sinking Bore holes in rock by anual augering conforming standard ecification test at relevant depth collecting ub/wet and undisturbed soil samples where ver required for conducting necessary aboratory tests and sub mission of report cluding / commencing suitable type of ondition drilling upto 6 mts or Refusal 50) whichever is earlier	29	No	1.00	4805.00	4,805.00	5363.0	5,363.00										5,363.00
xcation of water course by providing Coffer ams or bunds or islands as may be ecessary for piers and abutments onstructions, bailing out or pumping water ding seepage and until completion was, orrible, 1.50 mts depth below WSL	30	cum	17.50	235.44	4,120.20	264.0	4,620.00										4,620.00
Dismantling of existing structures like culverts, ridges, abutting walls and other structure comprising of masonry, cement concrete, wood work, steel work including T & P and scaffolding wherever necessary sorting the dismantled materials, disposal of unserviceable materials and stacking the serviceable materials with all lifts and lead of 100.0 metres complete as per specification (i) Dismantling Stone Masonry (ii) Rubble Stone masonry in cement mortar	31	cum	10.00	194.40	3,486.20	217.0	3,906.00										3,906.00
Dismantling of existing structures like culverts, bridges masonry walls and other structure comprising of masonry, cement concrete, wood work, steel work including T & P and scaffolding wherever necessary sorting the dismantled materials, disposal of unserviceable materials and stacking the serviceable materials with all lifts and load of 100.0 metres complete as per specification (i) Lime/Cement concrete (By Manual means) (ii) Lime/Cement Concrete (By Manual means) (iii) Cement concrete Grade M-15 & M-20	32	cum	3.00	293.76	881.28	329	987.00										987.00
Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and planking, removal of stumps and other obstructions if any, crossing of nalas and bullion and backfilling with approved material complete as per specifications (i) Mechanical Means (ii) Deadl ab.r & c.o Contract rat	33a	cum	1.15.3	40.90	7,728.41	48.0	9,113.02										9,113.02

...n excavation for foundation of ...s as per drawing and technical ...ions, including setting out, ...n of shoring and bracing, removal ... and other deleterious matter, ...l sides and bottom and backfilling ...ved material complete as per ...ions. B. Mechanical Means in Depth ... In Ordinary rock	33h	cum	88.16	48.20	3,809.99	48.0	4,232.64									4,232.64		
...k in excavation for foundation of ...s as per drawing and technical ...ions, including setting out, ...tion of shoring and bracing, removal ...s and other deleterious matter, ...of sides and bottom and backfilling ...moved material complete as per ...ions. B. Mechanical Means in Depth ... In Hard rock	13c	cum	88.16	456.84	40,304.15	512.0	45,148.16									45,148.16		
...g and Filling in foundation with ...ap stone metal 100mm and down ...h approved sand including hand ... ramming, watering, including cost of ...ials and labour with lead upto 50m ...of 1.5m complete as per ...ations.	74	cum	35.00	1149.72	34,500.34	1281.0	38,698.20									38,698.20		
...ment concrete M 10 with OPC cement ...gs with crushed 40m and down size ...g) 6MM metal coarse aggregates (5 ...m and fine aggregates @ 0.59 cum/m ...on mechanically mixed, placed in ...er and compacted by vibration ...g curing for 14 days complete as per ...ations.	35	cum	6.62	4190.40	30,107.15	4623.0	40,500.59									40,500.59		
...15 Grade bonding course below ...ch slab complete as per drawings and ...al specifications complete as per ...ed rate.	36	cum	3.16	4275.29	35,018.15	4789.0	39,221.91	10.24	4789.0	49027.39	20.97	4860.44	116504.747	34.21	165592.13	108,310.22		
...ing, conveying, shooting and filling ...(coarse) grit passing 9.5 mm Sieve ...ain as on 2.36mm) including watering ...ngrading in layers of 15 cms Each with ...and till and as directed by the ...r Incharge	97	cum	2.40	1200.57	3,000.45	1301.0	3,249.60									3,249.60		
...Reinforced Cement concrete M 20 with ...cement @ 320 kgs with 20mm and ...down graded granite metal coarse ...gates @ 0.69 cum and fine aggregates ...0 cum with superplasticizer @ 0% ...ming to IS 9103:1999 Reinforced cement ...in foundation complete as per drawing ...chnical specification. C. RCC Grade M-...ed. Using Concrete Mixer. MORTH ...fication No. 1700, 1703 & 1709	98	cum	6.52	4707.77	25,088.61	5273.0	28,106.96									28,106.96		
...Reinforced Cement concrete in open ...ation with OPC cement 1 bag (50 kgs) mix M25 ...0 kgs with 20mm and down size graded ...e metal coarse aggregates @ 0.98 cum ...e aggregates @ 0.47 cum with ...plasticizer @ 1% conforming to IS 9103: ...Reaffirmed 2010 complete as per ...g and technical specification. Concrete ...Batching Plant, Transit Mixer and ...rete Pump	39	cum	20.00	4918.32	101,366.56	5606.0	115,510.68									115,510.68		

Design mix M 35 with OPC cement @ 360kgs with 20mm and down size graded granite metal coarse aggregates @ 0.80cum and fine aggregates @ 0.45 cum with superplasticizer @ 3ltr containing to IS9103-1999 Reaffirmed-2008 (Upto 5m height)	28	cum	17.55	5489.64	96,338.08	6150.0	107,934.00											107,934.00	
Plain shuttering and Planing Reinforced / Prestressed cement concrete in super structure as per drawing and Technical Specification complete as per specifications. D RCC@ SC with OPC cement design mix M35 @ 360kgs with 20mm and down size graded granite metal coarse aggregates @ 0.80cum and fine aggregates @ 0.45cum with superplasticizer @ 3ltr conforming to IS9103-1999 Reaffirmed 2008. Case-II : Using Batching plant, Transit mixer & concrete pump (weight upto 5m	41	cum	19.98	5505.72	99,099.70	6210.0	99,442.20											99,442.20	
Plain / Reinforced Cement concrete design mix M 25 with OPC cement @ 340 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.78 cum and fine aggregates @ 0.47 cum with superplasticizer @ 3ltr conforming to IS 9103-1999 Reaffirmed 2005 in roun foundation complete as per drawing and technical specification. Case-I (With Batching Plant, Transit Mixer and Concrete Pump	42	cum	12.60	4009.44	50,638.94	5169.0	65,063.80											65,063.80	
Design mix M 25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.78cum and fine aggregates @ 0.47 cum, with superplasticizer @ 3ltr conforming to IS9103-1999 Reaffirmed2008 (Upto 5m height)	43	cum	18.05	5134.92	87,028.72	5750.0	97,462.50											97,462.50	
Supplying, fixing and placing TMT bar reinforcement in sub-structure as per drawing and Technical Specifications complete as per specifications.	44	MT	7.45	58938.66	437,910.00	78470.0	586,122.40											586,122.40	
Supplying, fixing and placing TMT bar reinforcement in super-structure complete as per drawing and technical specifications complete as per specifications	46	MT	1.01	59078.64	119,986.20	77900.0	147,648.00											147,648.00	
Providing 110mm dia PVC pipes in KSEC with perforations in 1:4 with aggregate of size 10mm - 20mm including geotextile fabric cover in plain concrete / reinforced concrete including cost and conveyance of all materials, labour, tool and all lifts etc., complete and as directed by the Engineer in charge for wall 0.45 mtr size	48a	Rmt	16.00	172.60	5,509.20	194.0	7,372.00											7,372.00	
Providing 110mm dia PVC pipes in KSEC with perforations in 1:4 with aggregate of size 10mm - 20mm including geotextile fabric cover in plain concrete / reinforced concrete including cost and conveyance of all materials, labour, tool and all lifts etc., complete and as directed by the Engineer in charge for base 0.75 mtr	48b	Rmt	6.00	235.00	1,410.00	264.0	1,584.00											1,584.00	
Drainage Source complete as per drawings and technical specifications complete as per specifications	47	No	2.00	1216.05	2,432.10	1362.0	2,724.00											2,724.00	
Reinforced concrete concrete M30 approach slab incl. drip beam, cutoff and form work complete as per drawings and technical specifications complete as per specifications	50	cum	15.75	8006.29	126,140.16	8970.0	141,277.00	18.00	8970.0	161509.80	37.50	8970.0	336301.950	59.00	529650.60	784,621.20			

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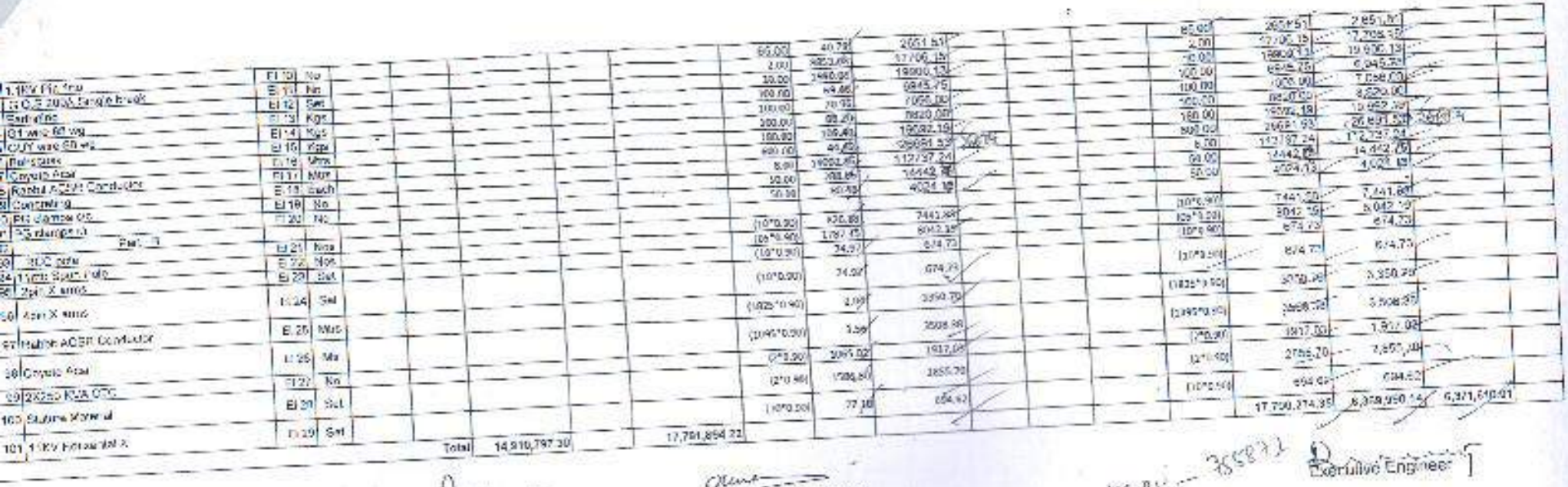
ding and laying bituminous concrete m thick with 100-120 TPI basalt type hot plant producing an average output of 75 ne per hour using crushed aggregates of ated grading premixed with bitumen ner at 5.4 to 5.8% of mix and filler, pording the hot mix to work site, laying a transportable paver finisher with screed rol to the required grade, level and smum rolling with smooth wheeled, ntary and tandem rollers to achieve the ired compaction as per MORT I edification clause No 509.9 complete in all ects as per specifications. with NRMI TO TEX OR RUBBER POWDER)	54	cum	3.19	8094.00	25,740.93	8095.0	26,020.88											24,020.88	
viding 90 NB MS Pipe on crash barrier e plates, inserts, and antirosive paint on ior coat, etc., complete as per drawing Technical specification and as directed the Engineer in charge	57	Mtr	7.20	800.00	5,760.00	899.0	6,451.20											6,451.20	
ding two coats of New Concrete Surface ing two coats after filling the surface with ther's enamel paint in all shades on new plastered concrete surfaces complete as per ecification.	58	sqm	15.84	54.27	859.64	61.0	866.24											866.24	
ying bituminous course 50mm to 75mm k along with prime coat / surface ssing by manual means without disturbing e base and stacking of the extra materials hin a lead of 100 mtrs including cost of all our charges complete as per specifications	57	sqm	150.00	43.52	6,528.00	49.0	7,350.00	187.50	49.0	9187.50			187.50	9187.50	1 837.50				
ying stone metal crust 50mm to 100mm k with pink base along with prime coat / face dressing and spading of mix sidentis materials within a lead of 100 tres by manual means including cost of all our charges complete as per specifications.	58	sqm	150.00	39.68	5,249.00	47.0	6,450.00	187.50	49.0	8062.50			187.50	8062.50	1 612.50				
struction of cutoff drain with approved erial Gravel/Murram with all its lead, ding, transporting to site, spreading, grading regulating slope and compacting to need quirement Table 900.2 complete as per ecifications (which includes cost of eathrum on watering charges & ompaction by vibratory roller	59	cum	51.00	146.58	7,476.58	165.0	8,415.00	56.99	165.0	9403.35			56.99	9403.35	938.35				
oading, laying, spreading and compacting ne aggregates of specific sizes in water und macadam specification including ressing in uniform thickness, hand packing filling with 3 wheeler steel vibratory roller 8-2 tonnes in shapes to proper grade and mber, applying and brooming requisite type screening / binding materials to fill up the d portions of coarse aggregate, watering and mpacting to the required density complete s per specification A by Manual means Type A 13.2mm for grinding)	60	cum	23.70	3308.96	31,022.85	1406.0	34,744.20	20.69	1406.0	43430.25	4.58	14626.64	66(4.0672	34.71	48824.34	15 230.14			

...ding, laying, watering and compacting ... aggregates or specific sizes to water ... Maximum specification including ... with 2 wheeled rollers, vibratory roller 8-... in layers to proper grade and ... applying and spreading required type ... binding materials to fill up the ... of coarse aggregate, watering and ... to the required density complete ... specification A by Main ... 3" (12mm for grading)	61	cum	15.80	1450.85	23,394.74	1668.0	26,106.40	19.75	1668.0	32745.00	3.06	1616.97	4947.9282	22.81	37083.43	11,457.03		
...ding and laying bituminous macadam ... Pads with 100 tph hot mix plant ... average output of 70 tonnes per ... crushed aggregates of specified ... premixed with bituminous binder ... of work in situ, laid over a prepared ... paving surface with camber relative to the ... grade, level and alignment and rolled ... Clauses 501.6 and 501.7 to achieve ... compaction, complete as per ... Clause 501 - 100 mm compacted ... grading B with 3.15 percent	62	cum	7.50	5410.60	40,581.00	6060.0	45,450.00									45,450.00		
...ck Work: Providing and ... bituminous emulsion ... coat @ 10 kg per ... of the prepared bituminous ... surface cleaned with mechanical brush ... width as per specifications using bitumen ... rate	63	sqm	75.00	9.94	745.50	11.0	825.00									825.00		
...ding, laying and rolling of close graded ... surfacing material of 20 mm thickness ... graded of 13.2 mm to 0.09 mm (Type - B) ... premixed using penetration grade bitumen ... Prepared base, grade and level to serve ... wearing course of a previously prepared ... Providing material in a suitable plant, ... with Paver and rolling with a Smooth ... roller 8-10 tonne capacity, and ... to required cross fall and grade complete ... specifications	64	sqm	150.00	120.79	18,118.50	142.0	21,300.00									21,300.00		
...ding, conveyance and disposal of surplus ... soil to designated dumping ... 10.00 km) as directed by the Engineer ... charge	66	cum	141.09	108.65	15,329.49	121.0	17,071.89									17,071.89		
...ing of existing structures for culverts, ... cooling walls and other structures ... of masonry, cutting concrete ... work including T & P and ... whenever necessary serving the ... cost of disposal of ... material and leveling the ... surface with all lifts and load of ... tonnes complete as per specification ... Cement concrete 1:2:4 by Main ... Cement Concrete 1:3:6 by Main ... Reinforcement cast ... Grade M-15 & M-... Nos. 16 Nos. 10 Nos.	B 1	Cum						131.35	514.44	100970.69				131.35	100970.69	100,970.69		
...ing Steel 20 ... Material ... CC Pole ... Reinforced Earthing ... Steel ... Earthing ... Steel	B1.2	No						5.00	23064.75	115323.75				5.00	115323.75	115,323.75		
	B1.3	Set						3.00	29004.12	87012.37				3.00	87012.37	87,012.37		
	B1.4	No						13.00	7670.83	99698.29				13.00	99698.29	99,698.29		
	B1.5	Set						20.00	600.86	12017.25				20.00	12017.25	12,017.25		
	B1.6	Set						3.00	420.06	5460.68				3.00	5460.68	5,460.68		
	B1.7	Set						19.00	183.49	3554.79				19.00	3554.79	3,554.79		
	B1.8	Set						17.00	481.00	8202.85				17.00	8202.85	8,202.85		



for VEDCAN ENGINEERS & CONSTRUCTIONS

Partner

Assistant Engineer

SWD,Yelahanka

Zone B.B.M.P

Assistant Executive Engineer

SWD,Yelahanka Zone, B.B.M.P

Executive Engineer

SWD,Yelahanka Zone, B.B.M.P